

Ship Oct 29

# Work Order ID 63067

Tuesday, October 19, 2010 3:28:04 PM



Page 1

Item ID: D4131-5

Accept



Setup Start



Revision ID:

Item Name: Side Plate

Stop



Start Date: 10/19/2010 Start Qty: 8.00



Cust Item ID:

Required Date: 10/26/2010 Req'd Qty: 8.00



Customer:

Reference:

Approvals:

Process Plan:



Date: 10-10-19

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

Draw Nbr	Revision Nbr
D4131	A

100



Waterjet

FLOW CNC Waterjet

304 .050

Memo

1-Cut as per Dwg

Dwg Rev: A

Prog Rev: A

2-Deburr if necessary

110



QC

Quality Control

Memo

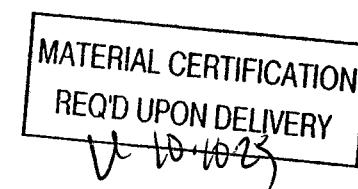
0.00

0.00

B 10-10-21

8

B 10-10-21



W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

**Work Order ID 63067**

Tuesday, October 19, 2010 3:28:04 PM



Page 2

Item ID: D4131-5

Revision ID:

Item Name: Side Plate

Start Date: 10/19/2010 Start Qty: 8.00

Accept



Setup Start



Required Date: 10/26/2010 Req'd Qty: 8.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start



QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

120



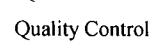
QC8- Inspect parts - second check

0.00

8

10/10/21

QC



Memo

0.00

Quality Control

130

IL Identify as per dwg & Stock Location: Weldy 0.00

IL 10.10.22

8

Packaging

Packaging

140



QC21- Final Inspection - Work Order Release

0.00

10.10.29

QC

Quality Control

0.00

MF 10-11-01

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

# Picklist Print

Page 1

Tuesday, October 19, 2010 3:28:12 PM

Work Order ID: 63067



Parent Item: D4131-5



Parent Item Name: Side Plate

Start Date: 10/19/2010

Required Date: 10/26/2010

Start Qty: 8.00

Required Qty: 8.00

Comments: IPP Rev:A 10.10.06 new issue DD verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304S18GA 		Purchased	No			100	sf	94.8879	0.0556	0.468211		10/19/2010	21

304/316 .050 Sheet

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
MAT20	94.8879	
111743	6.55	
112885	0.1679	112885
113062	40.17	
115389	48	

8

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART AEROSPACE LTD	Work Order: 63067
Description: SIDE PLATE	Part Number: D4131-5
Inspection Dwg: D4131-5 Rev: A	Page 1 of 1

## **FIRST ARTICLE INSPECTION CHECKLIST**

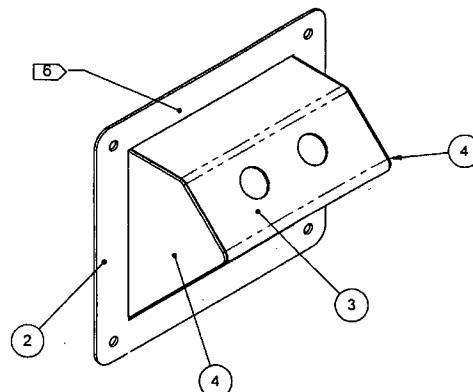
## X First Article      Prototype

Measured by:	<u>B</u>	Audited by:	<u>/</u>	Prototype Approval:	N/A
Date:	10-10-21	Date:	<u>10-10-21</u>	Date:	N/A

Rev	Date	Change	Revised by	Approved
A		New Issue	KJ/JLM	

8 7 6 5 4 3 2 1

ITEM	QTY	PART NUMBER	DESCRIPTION
1	X	D4131-041	MANIFOLD ASSEMBLY
2	1	D4131-1	FRONT PLATE
3	1	D4131-3	BASE
4	2	D4131-5	SIDE PLATE



SHOP COPY  
RETURN TO  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 63067  
BF 010-19

D4131-041 MANIFOLD ASSEMBLY

RELEASED  
2010-09-23  
MWD

NOTES:  
 1) MATERIAL: N/A  
 2) FINISH: N/A  
 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED  
 4) UNITS: INCHES UNLESS OTHERWISE NOTED  
 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX  
 6) IDENTIFICATION: PER QSI 044 6.1  
 7) WEIGHT: 0.64 lbs

A	NEW ISSUE		RF	10.09.16
REV.	DESCRIPTION		BY	DATE
DESIGN	RF	DART AEROSPACE USA, INC.		
DRAWN	RF	PORT HADLOCK, WA		
CHECKED	AP	DRAWING NO.	REV. A	
MFG. APPR.	MA	D4131	SHEET 1 OF 8	
APPROVED	AP	TITLE	SCALE	
DE APPR.	AP	MANIFOLD ASSEMBLY	NTS	
DATE	10.09.16		COPRIGHT © 2010 BY DART AEROSPACE USA, INC.	

8 7 6 5 4 3 2 1

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

8

7

6

5

4

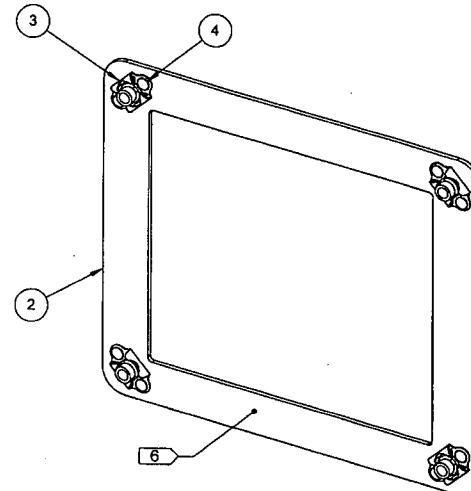
3

2

1

D

D



D4131-043 DOUBLER ASSEMBLY

W04307

RELEASED  
2010-09-23  
WWD

A

A

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: PER QSI 044 6.1
- 7) WEIGHT: 0.07 lbs

8

7

6

5

4

3

2

1

DESIGN	RF	DART AEROSPACE USA, INC.	
DRAWN	RF	PORT HADLOCK, WA	
CHECKED	<i>MP</i>		
MFG. APPR.	<i>DA</i>	DRAWING NO.	REV. A
APPROVED	<i>MP</i>	D4131	SHEET 2 OF 8
DE APPR.	<i>MP</i>	TITLE	SCALE
		MANIFOLD ASSEMBLY	NTS
DATE	10.09.16	COPYRIGHT © 2010 BY DART AEROSPACE USA, INC.	

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

8 7 6 5 4 3 2 1

D

D

C

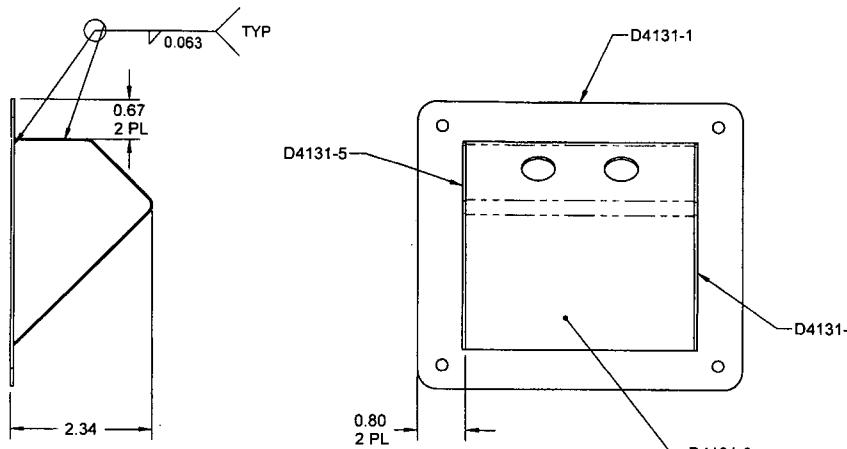
C

B

B

A

A

D4131-041 MANIFOLD ASSEMBLY

w/b 430d7

RELEASED

2010-09-23

NP

## NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: PER QSI 044 6.1
- 7) WEIGHT: 0.64 lbs
- 8) WELD PER DART QSI 004

8 7 6 5 4 3 2 1

DESIGN	RF	DART AEROSPACE USA, INC.
DRAWN	RF	PORT HADLOCK, WA
CHECKED	<i>140</i>	
MFG. APPR.	<i>140</i>	DRAWING NO. REV. A
APPROVED	<i>140</i>	D4131 SHEET 3 OF 8
DE APPR.	<i>140</i>	TITLE SCALE
		MANIFOLD ASSEMBLY NTS
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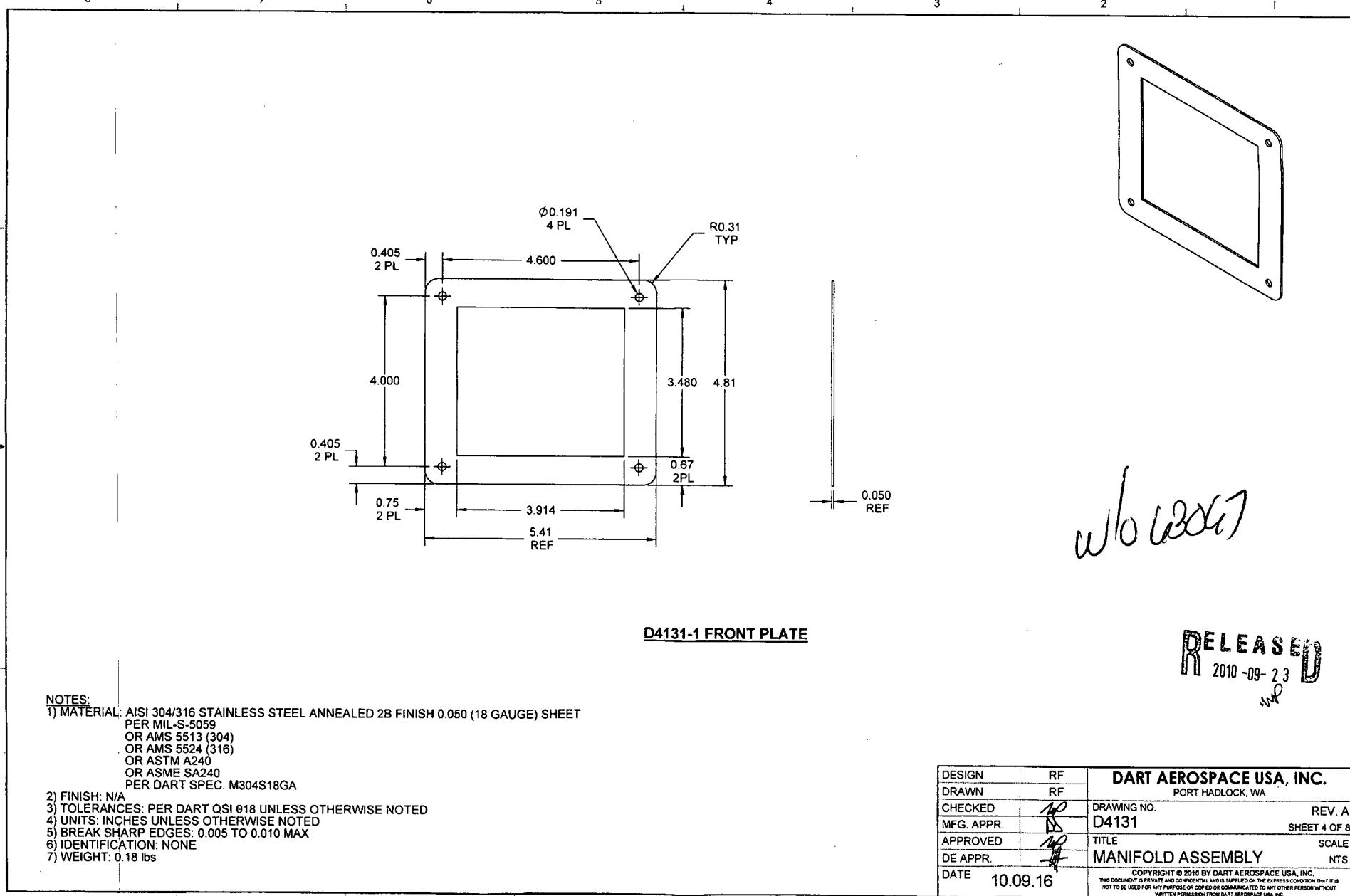
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



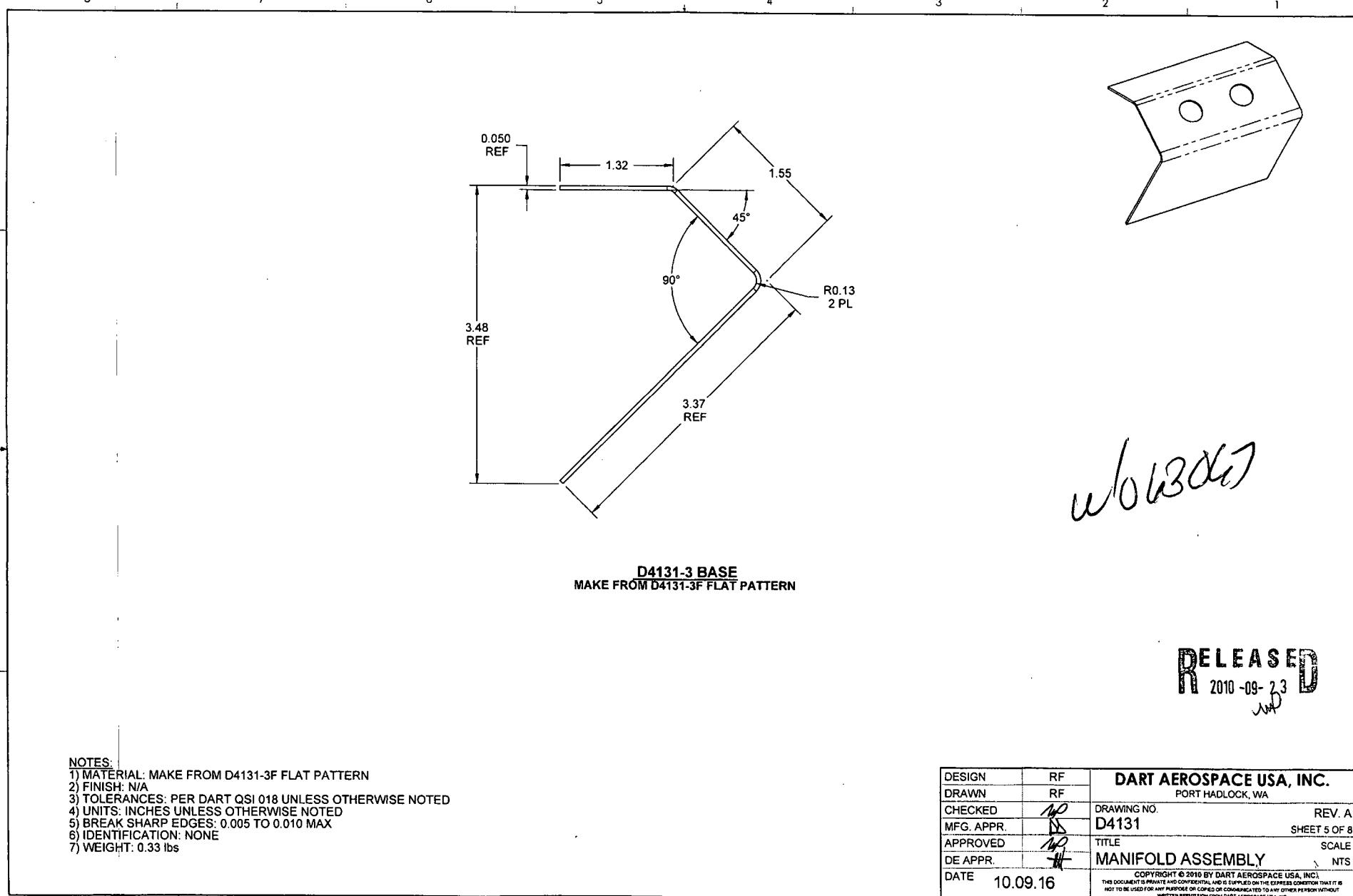
W/O:		WORK ORDER CHANGES					
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NOTE: Date & initial all entries



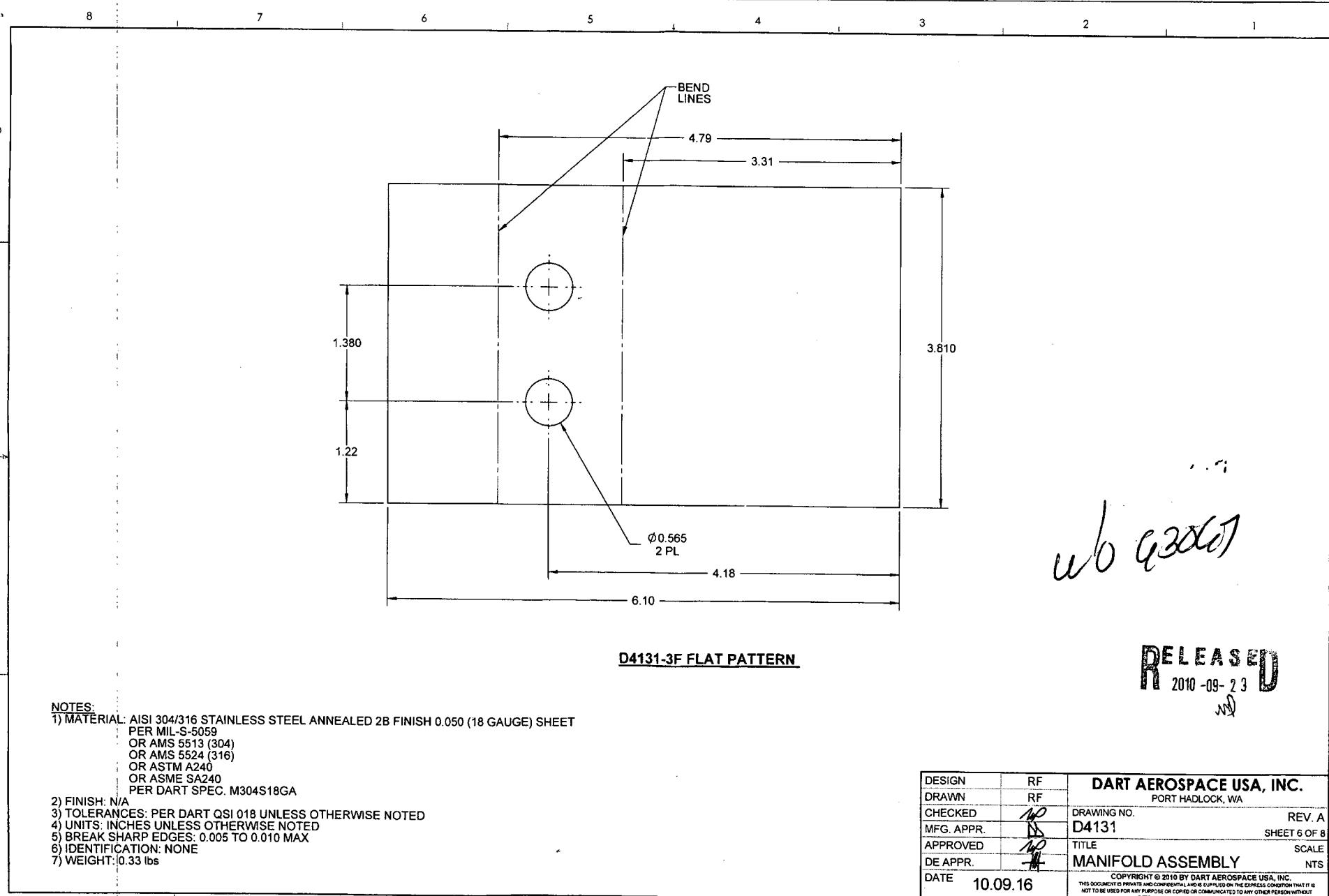
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



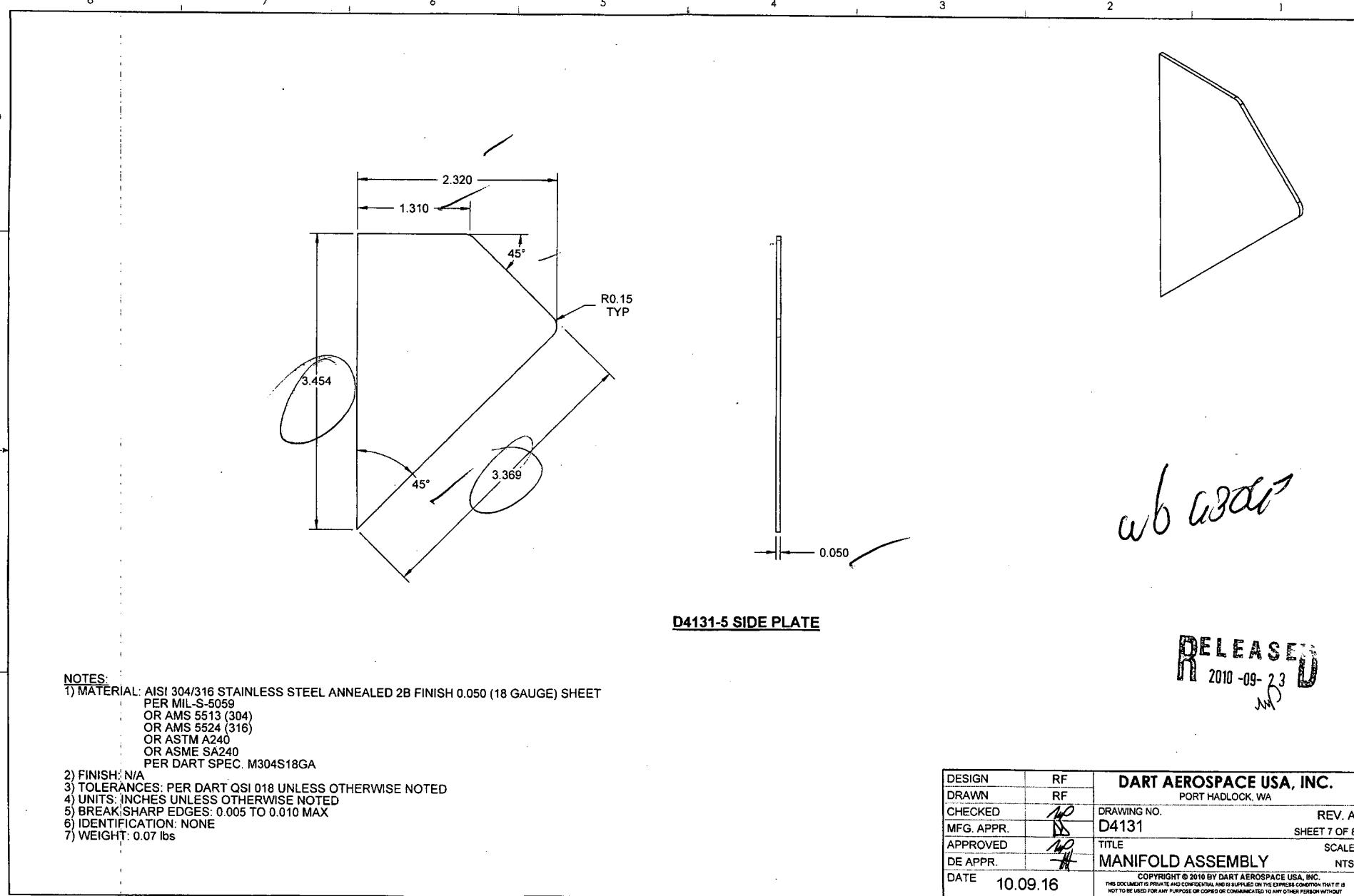
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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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NOTE: Date & initial all entries



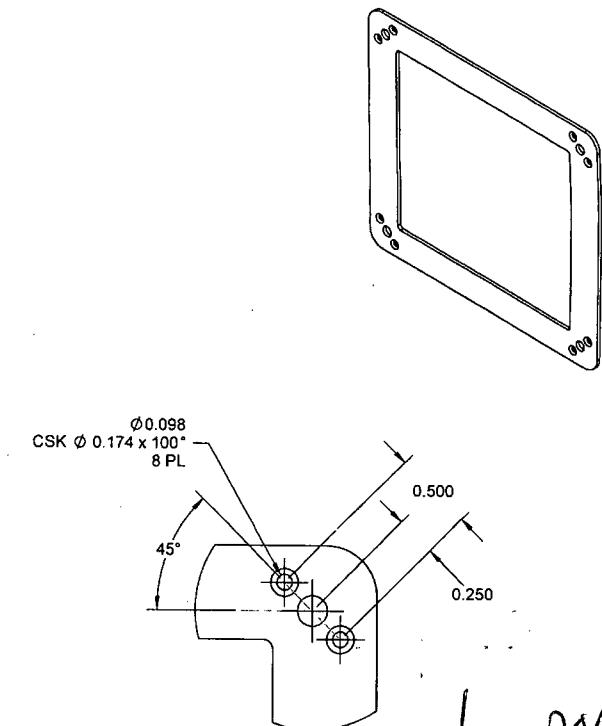
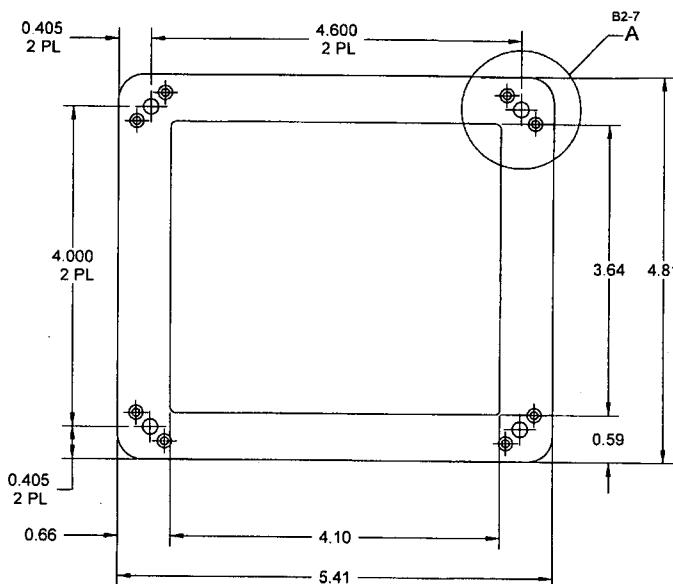
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



*WB 030617*  
DETAIL A DS-7  
TYPICAL

RELEASED  
2010-09-23  
*WB*

NOTES:

- 1) MATERIAL: 6061-T6/T62 ALUMINUM SHEET 0.063 THICK  
PER QQ-A-250/11 OR AMS-QQ-A-250/11  
OR AMS 4025 OR AMS4027  
OR ASTM B209  
PER DART SPEC. M6061T6S0.063
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 0.07 lbs

D4131-7 PLATE

DESIGN	RF	DART AEROSPACE USA, INC.	
DRAWN	RF	PORT HADLOCK, WA	
CHECKED	<i>RF</i>	DRAWING NO.	
MFG. APPR.	<i>RF</i>	D4131	REV. A
APPROVED	<i>RF</i>		SHEET 8 OF 8
DE APPR.	<i>RF</i>	TITLE	SCALE
		MANIFOLD ASSEMBLY	NTS
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W/O:		WORK ORDER CHANGES					
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

## Receiving Report

Date: 9/10/13

Supplier: MAGNA

Packing Slip: Yes  No   
 Invoice: Yes  No   
 Receipt: Cash  Cr

Batch No: M112885

Dart P/O: 10550

Release Note Attached: Yes  No  N/A   
 Waybill Attached: Yes  No   
 Shipment Complete: Yes  No  N/A   
 QC6 Inspection  N/A   
 Work Order  *Quality*  N/A

### Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12 

Production/Admin:

Date 09/10/14

Received/Costing

Initial CL

Location

Pg 1 of 1

I017858

SOLD TO:

DART AEROSPACE LTD  
 1270 ABERDEEN STREET  
 HAWKESBURY , ON  
 K6A 1K7

RECEIVED  
 OCT 20 2009

SHIP TO:  
 DART AEROSPACE LTD  
 1270 ABERDEEN STREET  
 HAWKESBURY , ON  
 K6A 1K7

MTR: Y

INVOICE DATE:	10/13/09
ORDER DATE:	10/08/09
SHIP DATE:	10/13/09
ORDER NUMBER:	W019653
PURCHASE ORDER:	P010550

Currency	Sales Person		Ship Via	F.O.B.	Terms		
CANADIAN DOLLARS	ERYCK BLAIS		NIR:R-557065-1	PREPAID	NET 30 DAYS		
Ln	Back Ordered	Ordered	Unit	Description	Shipped	Price Per	Value
		3	PC	STAINLESS SHEET SSH 304 2B 26GA x 48" x 96" L029393 3 PC/73 LB	3 UN	60.00	180.00
		3	PC	SSH 304 2B 20ga x 48" x 96" L029413 3 PC/150 LB	3 UN	115.00	345.00
		4	PC	SSH 304 2B 18ga x 48" x 96" L030411 3 PC/202 LB L028388 1 PC/67 LB	4 UN	135.00	540.00
		4	PC	SSH 304 2B 16ga x 48" x 96" L031195 4 PC/336 LB	4 UN	170.00	680.00

10/14/09 11:47:23

Title to the goods sent out on this invoice remains with Magna Stainless Div of CSM ULC until such time as this invoice has been paid in full. Unless otherwise noted terms are 30 days. Interest accrues on all overdue accounts at the rate of 1.5% per month compounded monthly.

Merchandise:	1,745.00
Surcharges:	
No Tax Costs:	
GST	87.25
Total Due:	1,832.25

Q.S.T. # 1213236471  
 G.S.T. # 881565899 RT0001

# Purchase Order Receipt Listing

Page 1 of 1

October 14, 2009 11:28:00 AM

All amounts are calculated in domestic currency.

All Vendors PO ID po10550 All Receipt Dates All Line Item Types

All Item ID/GL/WOs All Rec. Employees All Currencies

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt	
VendorID\Vendor Name		VC-MAG002	Magna Stainless									
PO10550	1		M304S16GA	sf		10/13/09	10/13/09	128.0000	\$5.31	0.0000	0	\$680.00
CAD	No		304/316 Sheet .063	sf		128.0000	Stores		\$680.00	0.0000	0	
			112885									
	2		M304S18GA	sf		10/13/09	10/13/09	128.0000	\$4.22	0.0000	0	\$539.99
	No		304/316 .050 Sheet	sf		128.0000	Stores		\$539.99	0.0000	0	
			112885									
	3		M304S20GA	sf		10/13/09	10/13/09	96.0000	\$3.59	0.0000	0	\$345.00
	No		304/316 .040 Sheet	sf		96.0000	Stores		\$345.00	0.0000	0	
			112885									
	4		M304S26GA	sf		10/13/09	10/13/09	96.0000	\$1.88	0.0000	0	\$180.00
	No		304/316 0.018 SHEET	sf		96.0000	Stores		\$180.00	0.0000	0	
			112885									
											Total Received Quantity: 448.0000	
											Total Qty to Inspect (PO U/M): 0.0000	
											Total Reject Quantity: 0.0000	
											Total Receipt Value: \$1,744.99	
											Total Balance Due Quantity: 0.0000	

I017858

Page: 1 of 1

SOLD TO:  
DART AEROSPACE LTD  
1270 ABERDEEN STREET

HAWKESBURY, ON  
K6A 1K7  
Contact: CHANTAL

SHIP TO:  
DART AEROSPACE LTD  
1270 ABERDEEN STREET

HAWKESBURY , ON  
K6A 1K7  
Ship Terms: PREPAID



**SPECIAL INSTRUCTIONS**

Currency	Sales Person	Customer Phone	Customer Fax	Customer PO	
CANADIAN DOLLARS	ERYCK BLAIS	(613) 632-5200	(613) 632-1053	P010550	
Sales Order	Terms	Ship Via	Date Ordered	Date Required	
W019653	NET 30 DAYS	NIR:R-557065-1	10/08/09	10/13/09	10/13/09

Skids: 1

Received by

Date \_\_\_\_\_

Signature:



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO10550**

Purchase Order Date 08/10/2009  
PO Print Date 08/10/2009

Page Number 1 of 2

Order From :

VC-MAG002

MAGNA STAINLESS  
5775 RUE KIERAN  
ST LAURENT, QC H4S 0A3  
CA

**FAXED**  
*to follow*

Contact Name	Buyer	Chantal Lavoie
Vendor Phone	Requisition Nbr	
Vendor Fax	Tax Resale Nbr	10127-2607
Vendor Account Nbr	Terms	Net 30
	Currency	CAD
	FOB	

Ship To : DART AEROSPACE LTD 1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Line Nbr	Reference Revision ID	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M304S16GA	304/316 Sheet .063 4432	13/10/2009 Yes	✓ 128.00 sf	Purolator ground	\$5.3125	\$680.00
2	M304S18GA	304/316 .050 Sheet	13/10/2009 Yes	✓ 128.00 sf	Purolator ground	\$4.2187	\$539.99
3	M304S20GA	304/316 .040 Sheet 3432	13/10/2009 Yes	✓ 96.00 sf	Purolator ground	\$3.5937	\$345.00
4	M304S26GA	304/316 0.018 SHEET	13/10/2009 Yes	✓ 96.00 sf	Purolator ground	\$1.8750	\$180.00

**Special Inst:** Purch. Mat: AISI 304/316 SS Sheet  
ANNEALED 2B finish  
Spec: MIL-S-5059 or AMS 5513(304) or  
AMS 5524(316) or ASTM A240 or ASME  
SA240

**Special Inst:** SAME AS ABOVE

**Special Inst:** SAME AS ABOVE

*10/10/13*  
No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable

Change Nbr: 1

Change Date: 08/10/2009

# posco Mill Test Certificate/검사증명서 M0 [7117]

Order No./기획번호: 0003353485

Supplier/주문자: DAE WOO INTERNATIONAL CORP.

Customer/고객사: MAGNA STAINLESS INC.

PO No./주문번호: 3353485

Certificate No./증명서번호: 080910-PRSE-010-001

Date of Issue/발행일자: Sep., 16, 2008

Surface Finish/표면마무리: NO.2B

Commodity/품명: STAINLESS COLD ROLLED COIL

Spec & Type/규격: ASTM A240-304

Size/차수	Product No./제품번호	Quan- tity/수량	Weight/ 중량 (kg)	Heat No./ 제작번호	Tensile Test/사장 테스트			Hard- ness/경도	Chemical Composition/화학성분(%)									
					T/ Tensile Strength MPa	S/ Tensile Strength kgf/mm <sup>2</sup>	E/ Elongation %		C	Si	Mn	P	S	Cr	Ni	Cut	Mo	N
0.85x1219x0	QEH0299A	1	4,677	SE37926	T: 265	S: 643	E: 80	32.0	0.04	0.62	1.065	0.04	0.04	18.16	304	442	23	0.01
0.90x1219x0	QEH0299B	1	4,677	SE37926	T: 277	S: 649	E: 80	33.5	0.04	0.62	1.065	0.04	0.04	18.16	304	442	23	0.01
*** Sub. Total.		(119)			T: 277	S: 649	E: 80	33.5	0.04	0.62	1.065	0.04	0.04	18.16	304	442	23	0.01
1.20x1219x0	QEH0031B	3	5,849	SC17938	T: 281	S: 651	E: 80	32.3	0.04	0.62	1.031	0.04	0.04	18.11	304	398	15	0.01
1.20x1219x0C	QEH0031C	3	4,199	SC17938	T: 261	S: 634	E: 80	32.3	0.04	0.62	1.031	0.04	0.04	18.11	304	398	15	0.01
1.20x1219x0C	QEH0031D	3	6,536	SC17938	T: 288	S: 663	E: 80	34.7	0.04	0.62	1.031	0.04	0.04	18.11	304	398	15	0.01
*** Sub. Total.		(920)			T: 288	S: 663	E: 80	34.7	0.04	0.62	1.031	0.04	0.04	18.11	304	398	15	0.01
1.50x1219x0	QEH0030A	1	6,368	SC17797	0.04	0.636	(kg)	33.7	0.04	0.62	1.052	0.04	0.04	18.02	303	369	14	0.01
1.50x1219x0C	QEH0030B	1	5,379	SC17797	T: 285	S: 643	E: 58	33.7	0.04	0.62	1.052	0.04	0.04	18.02	303	369	14	0.01
1.50x1219x0	QEH0030C	1	5,225	SC17797	T: 287	S: 646	E: 58	35.0	0.04	0.62	1.052	0.04	0.04	18.02	303	369	14	0.01
*** Sub. Total.		(930)			T: 287	S: 646	E: 58	35.0	0.04	0.62	1.052	0.04	0.04	18.02	303	369	14	0.01
Position: T: Top, M: Middle, B: Bottom				We hereby certify that the material herein has been made in accordance with the order and specification.														

Tensile Test: Direction: Transversal, Gauge Length: 50mm (Rectangular)

Yield Method: 0.2% off-set

Dimension: 1. Length Analysis

Chemical Composition Unit: 2x1100, 3x14000, 4x140000, 5x1180000

Tr: It is within the standard range (<0.008%) and include trace element.

Surveyor To:

POSCO Pohang Works, 5 Dongchon-dong, Nam-gu, Pohang-si, Gyeongsangbuk-do, 790-785, Korea

Test Certificate is issued according to EN10204-3-1B.  
This Mill Test Certificate cannot be copied for any purpose.

W.G. Jo  
Chief of material testing section  
Jo, Won (

MO18855

## POSCO Mill Test Certificate/검사증명서

Order No./계약번호:0003445692

PO No./주문번호:3445692

Certificate No./증명서번호:081027-PRSE-018-001

Date of Issue/발행일자:Oct., 30, 2008

Surface Finish/표면마무리:No.2B

Supplier/주문자:DAE WOO INTERNATIONAL CORP.

Commodity/품명:STAINLESS COLD ROLLED COIL

Customer/고객사:MAGNA STAINLESS INC.

Spec &amp; Type/규격:ASTM-A240-304

Size/지수	Product No. 제품번호	Quan- tity 수량	Weight 중량 (kg)	Heat No. 제강번호	P. O. S. I. T. (kg)	Tensile/인장시험			Hard- ness /경도	HRB	D i v i s i o n	Chemical Composition/화학성분(%)									
						YS 0.2%	TS (kg)	EL (%)				C	Si	Mn	P	S	Cr	Ni	Cu	Mo	N
0.90x1524xC	QBK0069A	1	4,995	SC19177	T	262	648	59	82.6		L	562	420	1050	280	33	1815	804	320	11	403
0.90x1524xC	QBK0069B	1	4,995	SC19177	B	259	654	61	81.3		L	562	420	1050	280	33	1815	804	320	11	403
*** Sub Total (010) ***			2		T	262	648	59	82.6												
0.90x1219xC	QGJ0268BA	1	5,960	SC18740	B	259	654	61	81.3												
0.90x1219xC	QGJ0268BA	1	5,960	SC18740	T	273	640	58	85.3		L	505	360	1050	280	31	1835	817	370	13	442
0.90x1219xC	QGJ0268BB	1	5,960	SC18740	B	281	648	54	86.6		L	505	360	1050	280	31	1835	817	370	13	442
0.90x1219xC	QGH0799C	1	4,896	SE37926	T	273	640	58	85.3		L	639	352	1065	293	55	1816	804	442	23	381
0.90x1219xC	QGH0799C	1	4,896	SE37926	B	281	648	54	88.6		L	639	352	1065	293	55	1816	804	442	23	381
*** Sub Total (020) ***			3		T	277	649	60	83.5												
1.50x1524xC	QBK0171A	1	6,341	SC19146	T	273	637	57	83.1												
1.50x1524xC	QBK0171C	1	6,810	SC19146	B	273	637	57	83.0												
1.50x1524xC	QBK0171C	1	6,810	SC19146	T	273	637	57	83.1												
1.50x1524xC	QBK0171C	1	6,810	SC19146	B	273	637	57	83.0												
*** Sub Total (030) ***			2		T	273	637	57	83.0												
1.50x1219xC	QEJ1008A	1	5,952	SC19200	T	281	636	56	83.8												
1.50x1219xC	QEJ1008A	1	5,952	SC19200	B	285	644	55	85.2												

\* Position - T : Top, M : Middle, B : Bottom

\* Tensile Test. Direction : Transversal. Gauge Length : 50mm(Rectangular).

YP Method : 0.2% off-set

\* Division - L:Ladle Analysis

\* Chemical Composition Unit: -2:x1/100, -3:x1/1000, -4:x1/10000, -5:x1/100000

\* Tr : It is within the standard range(&lt;0.008%) and include trace element.

We hereby certify that the material herein has been made in accordance with the order and specification.

Test Certificate is issued according to EN10204 3.1B.

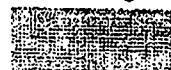
\* This Mill Test Certificate cannot be copied for any purpose.

Surveyor To:

ORIGINAL

POSCO Pohang Works, 5 Dongchon-dong, Nam-gu, Pohang-si, Gyeongsangbuk-do, 790-785, Korea

Chief of material testing section Jo, Won Gook



# Mill Certificate



Customer : ASA ALLOY  
 Order No : 807090251  
 Steel Grade : TYPE304  
 State of Delivery : SOLUTION TREATED

Changwon Works  
 P.O BOX 95, changwon,korea  
 Telefax:055-268-4133

Inspection No : 20080821100422  
 Specification : ASTM-A240/480  
 Edition : 2006b  
 Date of Issue : AUG.04.2008

No	Case No.	Work No.	Dimension			Surf -ace	Quan -tity	Weight ( KG )	Heat No.	Chemical Composition(%)									
			Thickness ( mm )	Width ( mm )	Length ( )					C	Si	Mn	P	S	Ni	Cr	Mo	N	
			Max	0.08	0.75	2.00	0.045	0.030	10.50	20.00		0.1000							
1	C-0112	C08339111-B00	0.500	X	1219	COIL	2B	7,446	N69146	.07	.51	.78	.034	.013	8.02	18.10		.0220	
2	C-1901	C0833A202-B00	0.500	X	1219	COIL	2B	7,997	N70816	.07	.46	.78	.027	.013	8.07	18.17		.0230	
3																			
4																			
5																			
6																			
7																			
8																			

No	Test No.	Mechanical Properties						
		Yield Strength		Tensile Strength	Elonga -tion	Hard -ness	Direction	Bend Test
		0.2%	1.0%	( MPa )	%	( HRB )		
		Max				92		
1	9111-1	286		666	63	84	TRANS	
2	A202-1	293		680	63	86	TRANS	
3								
4								
5								
6								
7								
8								

Remark									
본 검사 증명서에 명시된 규격 용도와 사용시 안전상의 문제가 발생할 수 있으며, 검사 증명서 위,변조시 사문서 위조(형법231조)로 불이익을 당하실 수 있습니다.									
We hereby certify, that the Material described above has been tested and complies with the terms of the order contract.									ISO 9001:2000

Changwon Works:  
 66, Shinchon-Dong, Changwon, Kyungnam, Korea. 641-370  
 Ulsan Works:  
 250, Yeocheon-Dong, Namgu, Ulsan, Korea. 680-090

e. S. KIM  
 Manager of Quality Assurance Section

689696

## MILL TEST REPORT

TA CHIEN INTERNATIONAL CORPORATION

www.tachen.com

MTR#: TXCL1728 Customer#: MAGDOR PO#: P006322 SO#: PE6923

Ref#: 18GA4863032B Bundle#: H28516900 Heat#: 0418904

This MTR contains 1 page (Page: 1)

This MTR contains 1 page (Page: 1)

A company  
of ThyssenKrupp  
Stainless

## ThyssenKrupp Mexinox

TXCL1728



## TEST REPORT (CERTIFICADO)

## CUSTOMER (CLIENTE)

MEXINOX USA

MILL ORDER NO. No. DE PEDIDO	4546 - 8	PACKAGE (EMPAQUE) No. H2851509 do
CUSTOMER PURCHASE ORDER No.	L26123	DATE (FECHA) JUN-11-09
CODE PART NUMBER		REPORT (CERTIFICADO) No. EJ3902

PRODUCT IDENTIFICATION  
IDENTIFICACION DEL PRODUCTO

ITEM NO.	COIL NO. NO. DE ROLLO	PIECES PIEZAS	HEAT COLADA NO. 0418904	TYPE AND FINISH TIPO Y ACABADO	DIMENSIONS DIMENSIONES in mm	GROSS WT. PESO BRUTO	LB kg	NET WT. PESO NETO	lb kg
1	693399 AGAA	46		304 / 2B UNS S30400	48.00 X 88.00 1219.20 X 2438.40	X X	3,034 1,376	2,862 1,298	

CHEMICAL COMPOSITION  
COMPOSICION QUIMICA (%)

## OTHER ELEMENTS (OTROS ELEMENTOS)

ITEM	C	Cr	Mn	N	Ni	P	S	Si					
1	.0480	18.0400	1.3000	.0450	8.0600	.0280	.0010	.3700					

MECHANICAL PROPERTIES  
PROPIEDADES MECANICAS

ITEM NO.	TEST NO. NO. MUESTRA	D	TENSILE S. R. TENSION	YIELD S. R. FLUENCIA	ELONGATION % ALARGAMIENTO %	HARDNESS DUREZA HRB	
1	A755778 A755778	L	92678 psi 639 MPa	44961 psi 310 MPa	61.2	(HEAD) 83.0 / 83.0	<i>Sol 1614</i>

THIS MATERIAL IS DYNAR 225.871-1 CLAUSE COMPLIANT. HEAT SOURCE: ITALY

THIS MATERIAL COMPLIES WITH CHEMICAL COMPOSITION ACCORDING TO ASTM A 340/A 340M-08 STD. NORM. AND IT COMPLIES ALSO WITH THE MECHANICAL AND CHEMICAL PROPERTIES ESTABLISHED IN THE FOLLOWING STD'S. :  
ASME SB440-95, QQ-S-766-D, MIL-S-5059-D, AMS 5513G.

\*THIS MATERIAL IS FREE OF MERCURY CONTAMINATION\*



We hereby certify that in recognition of the terms and conditions set forth in the EU RoHS Directive -2002/95/EC, we can insure that all of our products and processes fully comply with it.

HECHO EN MEXICO / MADE IN MEXICO

ELABORATED BY  
Jose Luis Vazquez Mata

PRINTED : 13:49:16 JUL-10-09

FORMATO NO. 38 - 027 - 02 Rev. 2



# INSPECTION CERTIFICATE

9324L91  
112122

Shanxi Taigang Stainless Steel CO.,LTD Member  
of Taiyuan Iron and Steel (Group) Co.,LTD  
NO.2 jiancaoping, Taiyuan, Shanxi, P.R.China  
TEL: (0351)3013328 FAX: (0351)3017816  
http://www.tisco.com.cn  
E-mail: tgbxg@tisco.com.cn

## MILL TEST CERTIFICATE

CERTIFICATE NO.	T08-692B
MATERIAL	AISI304 NO. 2B FINISH
SPECIFICATION	ASTM A240-04/A480-04, ASME U240/A480 ASTM A666, AHS 5513/5511

L/C No.

DATE OF ISSUE

### CUSTOMER

Ta Chen International, Inc.

### CONTRACT NO.

122628

20080401

### Product

### Melting furnace

### Inspectors Stamp

### Mark of the Manufacturer

### SHEET

### E+VOD



Shanxi Taiyuan Stainless Steel Co.,ltd

NO.	Heat No.	Coil No.	Batch No.	Quantity	Dimensions (inch)	Weight(Pound)
50	A2800233	KA80261160J10H1	78255692	1	16GA x 48" x 96	4226
51	A2800233	KA80261160J20H3	78255694	1	16GA x 48" x 96	4248
52	A2800233	KA80261160J10H2	78255696	1	16GA x 48" x 96	4248
53	A2800233	KA80261160J20H2	78255700	1	16GA x 48" x 96	4303
54	A2800233	KA80261130P10H4	78255864	1	16GA x 48" x 96	3973
55	A2703845	KA80181530F10H1	78252411	1	14GA x 48" x 120	4707
56	A2703845	KA80181530F10H2	78252414	1	14GA x 48" x 120	4442

### Chemical Composition

Heat No.	C	Si	Mn	P	S	Cr	Ni	Cu	Al	N	Mo	Ti
A2800233	0.042	0.491	1.143	0.026	0.002	18.337	8.012	0.119		0.0	0.093	
A2800233	0.042	0.491	1.143	0.026	0.002	18.337	8.012	0.119		0.0	0.093	
A2800233	0.042	0.491	1.143	0.026	0.002	18.337	8.012	0.119		0.0	0.093	
A2800233	0.042	0.491	1.143	0.026	0.002	18.337	8.012	0.119		0.0	0.093	
A2800233	0.042	0.491	1.143	0.026	0.002	18.337	8.012	0.119		0.0	0.093	
A2703845	0.043	0.538	1.234	0.027	0.002	18.164	8.050	0.218		0.0	0.114	
A2703845	0.043	0.538	1.234	0.027	0.002	18.164	8.050	0.218		0.0	0.114	

### Mechanical Properties (Test temperature :20°C)

Test No.	Tensile R.m N/mm <sup>2</sup>	R <sub>90.2</sub> Yield <sub>0.2%</sub> N/mm <sup>2</sup>	R <sub>P1.0</sub> Yield <sub>1.0%</sub> N/mm <sup>2</sup>	Elongation		Corrosion Tests	Hardness		
				A5 (%)	A50 (%)		HRB	HV	HRC
78255692-T	640	293			54		87.5		
78255694-T	640	293			54		87.5		
78255696-T	640	293			54		87.5		
78255700-T	640	293			54		87.5		
78255864-T	645	292			53		88.0		
78252411-T	640	299			55		86.5		
78252414-T	640	299			55		86.5		

SPECTROMETER SORTING TEST: OK  
EN 10204-3-1B

Place: Taiyuan

Work Inspector: 李志新



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